Est cost Rs 50.0 lakhs

M. A. R. 57 (Rule 116)
Measurement Book

No. D.W.S. work order No: 76/17-18. Dt. 20.11.17

Serial No. .....
Name of work Improvements to roads and drains at 15th Cross Mahalaxmi Nagar in Ward No 14, Bagalgunte From ..... To 225010
Name of Contractor of nature of Agency ..... - KRIDL -
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions			Contents	Reference to last Measurement
		Number	Length	Breadth / Depth		
1	2	3	4	5 / 6	7	8
	Head of AC : P.1878					
	Name of the Agency : KRIDL					
	Ad. Sanction No :					
	Job code No :					
	Date of work completed -					
	Bill No : 1st & final					
	Bill recording date - 01.10.18					

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Embackment gravel | | 4 | 81.85 | 77.492743

MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	Tender Item NO 1 Earth work excavation by manual means in ordinary soil including an average horizontal throw upto 20mt and an average lift upto 0.5mt excavated surface Levelled and sides neatly dressed complete as per specification Engineer in charge of the site directed. Qty vide page No 225078 of this MB					802.40 m3	
	Tender Item No 2 providing and laying pcc of mix 1:4:8 with ope of @ 180 kgs with 40mm and down kgs jelly C.A @ 0.85 m3						

M. A. R. 57 (Rule 116) No. D
Measurement Book

Serial No. .....
Name of work ..... From ..... To 225011
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc. of work	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	and f.a @ 0.57 m3 m/c mixed concrete (8 graded) layer by mat exceeding 15cms thick as per specifications complete as directed by engineer at site.						
	Shalaya Quantity vide page NO 225078 of this MB					43.20 m3	
	Tender Item NO 3 providing and removing centring shuttering strutting propping etc and removal of form work for vertical surfaces such as walls at any courses including cost of all materials as directed by engineer at site.						

MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	For drains	2×2	50.0	–	1.0	200.0 m²	
		2×2	50.0	–	1.0	200.0 m²	
		2×2	50.0	–	1.0	200.0 m²	
		2×2	50.0	–	1.0	200.0 m²	
		2×2	40.0	–	1.0	160.0 m²	
				Total Qty		960.0 m²	

Tender Item No 4 Design mix M20 with 6mm nom size 20 mm and down size jelly graded metal Coarse aggregate @ 0.69 cum and f.a @ 0.46 cum with Supaplasticizer @ 3 ltr Conforming to IS 9103-1999 as directed by Engineer at site

M. A. R. 57 (Rule 116) No. D
Measurement Book

Serial No. .....
225012
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work .....

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	For bottom :	1 –	50.0	0.90	0.15	6.75 m³	
		1 –	50.0	0.90	0.15	6.75 m³	
		1 –	50.0	0.90	0.15	6.75 m³	
		1 –	50.0	0.90	0.15	6.75 m³	
		1 –	40.0	0.90	0.15	5.40 m³	SL Jagga
	For side walls	2 –	50.0	0.15	0.80	12.0 m³	
		2 –	50.0	0.15	0.80	12.0 m³	
		2 –	50.0	0.15	0.80	12.0 m³	

2 × 50.0 × 0.15 × 0.80 = 12.0 m³
2 × 40.0 × 0.15 × 0.80 = 9.60 m³

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Tender Item No 5		total quantity			90.0m³.	
	Supplying and fetting and placing TMT bar fe 500 reinforcement in Sub structure complete as per directions and complete as directed by direction of Engineer at Site.						
	Quantity vide page NO 225079 of this MB						
	Qty. 7.14 Tones						
	Tender Item No. 6						

M. A. R. 57 (Rule 116) **No. D**
Measurement Book

Serial No. .....
Name of work ..... From ..... To 225013
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Supplying and fixing precast Reinforcement Concrete Slab 10cm thick including cost of reinforcement including as per direction of Engineer at site						
	Top Covering	1	50.0	0.90	—	45.0m²	
		1	50.0	0.90	—	45.0m²	
		1	50.0	0.90	—	45.0m²	
		1	50.0	0.90	—	45.0m²	
		1	40.0	0.90	—	36.0m²	
						216.0m²	

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Under Item No. 7						
	Providing laying Spreading and Compacting graded Stone aggregated to wet mix macadam Specifications as directed by direction of Engineer at site.						
	For Roads:	1	50.0	5.0	0.15	37.50 m3	
		1	50.0	5.0	0.15	37.50 "	
		1	50.0	5.0	0.15	37.50 "	
		1	50.0	5.0	0.15	37.50 "	
		1	50.0	5.0	0.15	37.50	
						187.50 m3	

13.051662 77.494868 1st MAin Dead end 13.051342 1st Main Dead end

M. A. R. 57 (Rule 116)
Measurement Book
No. D

Serial No. .....
225014

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Under Item No. 8						
	Construction of dry lean c.c. mix cc 1:5:10 with cc @ 160 kgs with 25mm and down size Jelly c.a @ 0.8 m3 and f.a @ 0.58 m3 and Sub base over a prepared subgrade with aggregate Cement ratio not to exceed 15:1 Aggregate gradiation & blending to be cc not Less than 160 kg/m3 OMC etc Compacted as directed by Engineer etc.						
	For Road:	1	50.0	5.0	0.15	37.50 m3	
		1	50.0	5.0	0.15	37.50 "	
		1	50.0	5.0	0.15	37.50 "	
		1	50.0	5.0	0.15	37.50 "	

1 x 50.0 x 5.0 x 0.15 = 37.50 -
1 x 50.0 x 5.0 x 0.15 = 37.50 "
1 x 50 x 5.0 x 0.15 = 37.50 "

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		Total Qty	-	-		187.50	Cu.m
	Tender Item No. 9						
	Cemt. c pavement thickness as per design over a prepared Sub-base with or any type as per Clause 1051-2.2 with 20mm and down size C.A and F.A with Ryte plasticizer or Conplast SP, mixed in mixer not less than 0.60 cu.m capacity and appropriate weigh batcher as per design and as directed by Engineer at site complete etc.						
		1	50.0	5.0	0.15	37.50	Sq.m
		1	50.0	5.0	0.15	37.50	Sq.m
		1	50.0	5.0	0.15	37.50	Sq.m
				Total Qty		187.50	Cu.m
	Tender Item No 10						
	V.D.F with Vacume pump and Suction road and Compaction with 10mm thick Cladded with Reading disc including cost of all materials etc as directed by engineer at site.						

M. A. R. 57 (Rule 116) No. D
Measurement Book

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

225015

Skelagan

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	50.0	5.0	–	250.0 m²	
		1	50.0	5.0	–	250.0 m²	
		1	50.0	5.0	–	250.0 m²	
		1	50.0	5.0	–	250.0 m²	
		1	50.0	5.0	–	250.0 m²	
				Total		1250.0 m²	

Tender Item No. 1

providing groove cutting to concrete pavement for width of 5 mm to 10 mm and depth 80 mm - 100 mm including cost of cutting machine generator & hours of machinary including cost of all materials etc as directed by engineer at site

M. A. R. 57 (Rule 116) No. D
Measurement Book

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

225016

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		11	5.0	-	–	85.0 mt	

Tender Item No 12

Removal of debris to the place of disposal with all Lead and lift and as direction of Engineer at site Lead upto 4 km at Sonepeth

Shedagar

1 × 500 × 5.0 × 0.20 = 50.0 m³
1 × 500 × 3.0 × 0.40 = 60.0 m³
1 × 70.0 × 2.50 × 0.35 = 61.25 m³
1 × 80.0 × 2.50 × 0.30 = 60.0 m³

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
		1	75.0	4.0	0.30	90.0m3	
		1	60.0	3.0	0.25	45.0	
		1	75.0	2.50	0.40	75.0	
		1	70.0	3.0	0.50	112.50	
		1	80.0	2.0	0.50	80.0	
		1	50.0	4.0	4.0	80.0	
		1	70.0	5.0	0.30	105.0	
		1	30.0	3.0	0.50	45.0	
	Shedagar	1	45.0	4.0	0.50	90.0	
						953.75m3	
		Shrinkage 15%				143.06	
						810.68m3	

M. A. R. 57 (Rule 116)
Measurement Book
No. D

225017

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
		Amount to Cty			-	802.40m3	
	ABSTRACT						
	particulars	Quantity		Rate		Amount	
1	Earth work excavation	802.40m3	-	86.92	-	69745.00	-
2	pce 1:4:8	4320m3	-	5159.62	-	222870.00	-
3	Centring and Shuttering	9600m2	-	310.58	-	29815700	-
4	M20 mix Shedagar	90.0m3	-	6965.00	-	626873=00	

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
5	Steel - (TMT)		7.140mt	6488.24		474682.00	
6	PSC. Coding Slab		215.0m	1698.0		366768=00	
7	Wet mix macadam		187.50m³	1768.08		331515=00	
8	CC 1:5:10		187.50m³	3986.66		747499=00	
9	pavement Construction		187.50m²	627.96		1185868=00	
10	UDF		1250.0m²	95.10		119250=00	
11	groove cutting		85.0mt	121.90		10362.00	
12	Removal of debris		802.40m³	85.65		68724.00	

M. A. R. 57 (Rule 116)
Measurement Book
No. D

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

225018

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
13	GST KRIDL Charges				Rs	495254.00	
			10%	Rs		4997567=00	

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISION
BENGALURU-560 010

11/10/18

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